

$^{13}\text{C}(\text{d},\alpha)$ **1970Br23**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu		NP A880, 88 (2012)	1-Jan-2011

1968Co04: $^{13}\text{C}(\text{d},\alpha)$ E=3.87, 4.66 MeV, measured $\sigma(\theta=70 \text{ degree})$.

1968De26: $^{13}\text{C}(\text{d},\alpha)$ E=6.8 MeV, measured $\sigma(\theta)$.

1969Cu08: $^{13}\text{C}(\text{d},\alpha)$ E=10-12 MeV, measured $\sigma(E_\alpha, \theta)$. ^{11}B levels deduced L, J. Zero-range DWBA.

1970Br23: $^{13}\text{C}(\text{d},\alpha)$ E=4.0, 4.2 MeV, measured $\sigma(E_\alpha, \theta)$, Q. ^{11}B deduced levels.

1970Kl04: $^{13}\text{C}(\text{d},\alpha)$ E=12.1-14.1 MeV, measured $\sigma(E, E_\alpha, \theta)$. DWBA calculations.

1971Pu01: $^{13}\text{C}(\text{d},\alpha)$ E=0.4-0.85 MeV, measured $\sigma(E, \theta)$. Deduced optical-model parameters.

1993Ma54: $^{13}\text{C}(\text{d},\alpha)$ E=0.15-0.35 MeV, measured $\sigma(\theta)$. Deduced astrophysical S-factor.

1998Na38: $^{13}\text{C}(\text{d},\alpha)$ E=180-350 keV, measured σ , $\sigma(\theta)$, $\sigma(E)$.

2007Co01: $^{13}\text{C}(\text{d},\alpha)$, E=0.5-1.65 MeV; measured $\sigma(\theta)$.

2009Ga19: $^{13}\text{C}(\text{d},\alpha)$, E=15.3 MeV, measured E_α , I_α . Deduced $\sigma(\theta)$, formation of excited states In ^{11}B .

 ^{11}B Levels

E(level)	Comments
0	
2125.4 14	E(level): from (1970Br23), also see E=2107 keV 17 (1951Li29).
4444.5 16	E(level): from (1970Br23).
5020.2 19	E(level): from (1970Br23).
6745.9 34	E(level): from (1970Br23).
6795.7 30	E(level): from (1970Br23).
8520 70	E(level): from (1980Aj01 referring to 1970Br23) the origin is unclear.
8910 60	E(level): from (1980Aj01 referring to 1970Br23) the origin is unclear.